



M3N-HT Deluxe/Mempipe



3-Way SLI provides Scalable Performance

- AMD AM2+/AM2 Platform
- Support latest AMD Phenom™ Quad-Core Processor
- Dual-Channel DDR2 -1066/800 /667/533
- 3 x PCIe 2.0 Gfx with NVIDIA
- 3-Way SLI™ Support
- NVIDIA Hybrid SLI™ and DX10 Support
- 10°C Cooler! Revolutionary Memory Heat Pipe
- Instant Internet Access with Express Gate™
- 8+2 Phase Power Design
- Support 45nm Phenom™ II CPU



Specifications

CPU	AMD Socket AM2+ Processors AMD® Socket AM2/AM2+ for AMD Phenom™ FX / Phenom / Athlon™ / Sempron™ AMD Cool'n'Quiet™ Technology AMD Live!™ Ready *Support CPU up to 140W Support 45nm Phenom™ II CPU
Chipset	NVIDIA nForce® 780a SLI NVIDIA ESA (Enthusiast System Architecture) Support
System Bus	2000/1600 MT/s for AM2 CPU Up to 5200 MT/s; HyperTransport™ 3.0 interface for AM2+ CPU
Memory	4 x DIMM, Max. 8 GB, DDR2 1066/800/667/533 ECC, Non-ECC, Un-buffered Memory Dual Channel memory architecture *DDR2 1066 is supported by AM2+ CPU only **When installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
Expansion Slots	3 x PCIe x16 support NVIDIA 3-Way SLI Tech @ dual x16 or x16, x8, x8 1 x PCIe x1 2 x PCI 2.2
VGA	Integrated NVIDIA GeForce® 8 Series GPU AMD® Socket AM2+ for Hybrid SLI™ Support (support Windows® Vista only.) Supports HDMI™ Technology with max. resolution up to 1920 x 1200 Supports DVI with max. resolution up to 1920 x 1200 @ 60Hz Supports D-Sub with max. resolution up to 1920 x 1440 @ 75 Hz HDMI/DVI/RGB Support Supports Microsoft® DirectX 10, OpenGL 2.0, Pixel Shader 4.0 Support PCIe 2.0 / 1.0 Architecture Maximum shared memory of 512MB
Scalable Link Interface (SLI™)	Support NVIDIA Hybrid SLI-Ready graphics cards

Storage	Chipset 1 xUltraDMA 133/100/66 6 xSATA 3 Gb/s ports (Use SATA1-4 for IDE mode.) NVIDIA® MediaShield™ RAID Support RAID 0,1,0+1,5,JBOD Marvell® 6111 SATA controller 1 x External SATA 3.0 Gb/s port (SATA On the Go)
LAN	NVIDIA Gigabit MAC Atheros F1 Gigabit PHY featuring AI NET 2
Audio	ADI® AD1988B 8 -Channel High Definition Audio CODEC Coaxial / Optical S/PDIF out ports at back I/O
IEEE 1394	LSI® FW322 controller supports 2 x 1394a ports
USB	10 USB 2.0 ports (6 ports at mid-board, 4 ports at back panel)
ASUS Unique Features	ASUS Express Gate - Web browser, file downloading and uploading* - Further free features upgradable - Onboard flash with Express Gate installed * File downloading and uploading through USB devices only ASUS Quiet Thermal Solution - ASUS Fanless Design: Cool Mempipe solution - ASUS Fanless Design: Heat-pipe solution - ASUS Fanless Design: Stack Cool 2 - ASUS 8+2 Phase Power Design - ASUS AI Gear 2 - ASUS AI Nap - ASUS Q-Fan 2 - ASUS Optional Fan for Water-cooling or Passive-Cooling only ASUS Crystal Sound - ASUS AI Audio 2 - ASUS Noise Filter ASUS EZ DIY - ASUS Q-Shield - ASUS Q-Connector - ASUS O.C. Profile - ASUS EZ Flash 2
Overclocking Features	Intelligent overclocking tools - AI Overclocking (intelligent CPU frequency tuner) - ASUS AI Booster 2 Utility Precision Tweaker 2 - vDIMM: 35 -step DRAM voltage control - vCore: Adjustable CPU voltage at 0.0125V increment - vChipset 16-step Chipset voltage control - vHT Bus: 16-step Chipset voltage control SFS (Stepless Frequency Selection) - FSB tuning from 200MHz up to 600MHz at 1MHz increment - Memory tuning from 533MHz up to 1066MHz - PCI Express frequency tuning from 100MHz up to 200MHz at 1MHz increment Overclocking Protection - ASUS C.P.R.(CPU Parameter Recall)
Special Features	Multi-language BIOS ASUS MyLogo 2 Uses 100% All High-quality Conductive Polymer Capacitors!
Back Panel I/O Ports	1 x D-Sub 1 x PS/2 Keyboard 1 x HDMI 1 x External SATA 1 x S/PDIF Out 1 x LAN(RJ45) port 4 x USB 2.0/1.1 8 -Channel Audio I/O
Internal I/O Connectors	3 x USB connectors (6 ports) 1 x Floppy disk drive connector 1 x IDE connector 6 x SATA connectors

	2 x IEEE 1394a connector 1 x CPU Fan connector 2 x Chassis Fan connector 1 x Power Fan connector 1 x S/PDIF Out connector 1 x 18-pin ATX 12V Power connector 24-pin ATX Power connector Front panel audio connector COM connector Chassis Intrusion connector CD/AUX audio in System Panel
BIOS	8 Mb Flash ROM DMI 2.0 PnP WfM 2.0 SM BIOS 2.5 Award BIOS ACPI 2.0 ASUS EZ Flash 2
O/S Compatibility	Windows Vista Windows XP
Accessories	ASUS Cool Mempipe UltraDMA 133/100/66 cable FDD cable SATA cables SATA power cables Q-Shield User's manual 1 x Multi-function module (IEEE 1394 + USB2.0) 1 x HDMI to DVI Convertor 1 x SLI bridge 1 x 3-way SLI bridge 3 in 1 Q-connector Optional Fan for Water-Cooling or Passive-Cooling only
Support Disc	Drivers ASUS PC Probe II Express Gate ASUS AI Suite Anti-virus software (OEM version) ASUS Update
Form Factor	ATX Form Factor 12 inch x9.6 inch (30.5 cm x24.4 cm)

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

- All specifications are subject to change without notice. Please check with your supplier for exact offers.
Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.